## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	9	("20020074558" "20020096687" "2 0020137244" "5115286" "5861636"  "5889295" "6403987" "6420732" " 6878563").PN.	US-PGPUB; USPAT	OR	ON	2007/12/10 11:34
S2	11	("5157468"   "5210051"   "5376580"   "5625202"   "5661074"   "5780873"   "5786606"   "5862167"   "5874747"   "5928421"   "6060335").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 13:26
S3	165	current adj spreading near5 transparent	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 13:32
S4	76	current adj spreading near5 oxide	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 13:33
S5	0	("2004/0135166").URPN.	USPAT	OR	ON	2007/12/10 15:08
S6	1	"6847056".pn.	USPAT	OR	ON	2007/12/10 15:08
S7	3	("6057562"   "6420732"   "6459098").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 16:21
S8	1	"6614056".PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 16:21
S9	9	("5309001"   "5652434"   "5696389"   "5698865"   "5793405"   "5898185"   "5923052"   "5959316"   "6307218").PN.	US-PGPUB; USPAT; USOCR	OR .	ON	2007/12/10 16:43
S10	1	"6657236".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 16:43
S11	1	"6459098".pn.	US-PGPUB; USPAT	OR	ON	2007/12/10 19:13
S12	1	"6614056".pn.	US-PGPUB; USPAT	OR	ON	2007/12/10 19:36
S13	844	jacket adj layer	US-PGPUB; USPAT	OR	ON	2007/12/10 19:38
S14	61	jacket adj layer and semiconductor	US-PGPUB; USPAT	OR	ON	2007/12/10 19:38
S15	330	DBR near9 (conduct\$3)	US-PGPUB; USPAT	OR	ON	2007/12/10 20:30
S16	70	DBR near9 (conduct\$3) near3 electric\$4	US-PGPUB; USPAT	OR `	ON	2007/12/10 20:45
S17	1	current adj spread\$3 with SnO near Sb	US-PGPUB; USPAT	OR	ON	2007/12/10 20:46

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3	current adj spread\$3 with SnO	US-PGPUB; USPAT	OR	ON	2007/12/10 20:47
4	SnO and Sb and current adj spread\$3	US-PGPUB; USPAT	OR	ON	2007/12/10 20:48
703	SnO and Sb	US-PGPUB; USPAT	OR	ON	2007/12/10 20:52
2507	current adj spread\$3	US-PGPUB; USPAT	OR	ON	2007/12/10 20:52
1	current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) with antimony	US-PGPUB; USPAT	OR	ON	2007/12/10 20:53
57	current adj spread\$3 with (tin adj4 oxide or stannous adj oxide)	US-PGPUB; USPAT	OR	ON	2007/12/10 21:03
8	current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)	US-PGPUB; USPAT	OR	ON	2007/12/10 21:24
4	("5789768"   "5977565"   "6121635"   "6838705").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 21:04
87	diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)	US-PGPUB; USPAT	OR	ON .	2007/12/10 21:24
18	diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony) and (contact with reflect\$3)	US-PGPUB; USPAT	OR	ON	2007/12/10 21:34
17316	(tin adj4 oxide or stannous adj oxide) and (Sb or antimony)	US-PGPUB; USPAT	OR	ON	2007/12/10 21:34
9217	(tin adj4 oxide or stannous adj oxide) with (Sb or antimony)	US-PGPUB; USPAT	OR	ON	2007/12/10 21:34
0	(tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity	US-PGPUB; USPAT	OR	ON	2007/12/10 21:34
. 148	(tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal	US-PGPUB; USPAT	OR	ON	2007/12/10 21:35
0	(tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conduct\$3	US-PGPUB; USPAT	OR	ON	2007/12/10 21:35
6	(tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with heat near3 conduct\$3	US-PGPUB; USPAT	OR .	ON	2007/12/10 21:38
46	(Sb or antimony) with heat near3 conduct\$3	US-PGPUB; USPAT	OR	ON	2007/12/10 21:39
7	(Sb or antimony) near5 heat near3 conduct\$3	US-PGPUB; USPAT	OR	ON	2007/12/10 22:05
	4 703 2507 1 57 8 4 87 18 17316 9217 0 148 . 0 6	4 SnO and Sb and current adj spread\$3  703 SnO and Sb  2507 current adj spread\$3  1 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) with antimony  57 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  4 ("5789768"   "5977565"   "6121635"   "6838705").PN.  87 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony) and (contact with reflect\$3)  17316 (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  9217 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  19 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal  0 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conduct\$3  6 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with heat near3 conduct\$3  6 (Sb or antimony) with heat near3 conduct\$3  7 (Sb or antimony) near5 heat near3	4 SnO and Sb and current adj spread\$3  703 SnO and Sb  2507 current adj spread\$3  1 current adj spread\$3 US-PGPUB; USPAT  1 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) with antimony  57 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide)  8 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide)  9 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  1 ("5789768"   "5977565"   US-PGPUB; USPAT US-PGPUB; USPAT, USCCR  87 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  19 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity3  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity3  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity3  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity3  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity3  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity3  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductity3  10 (tin adj4 oxide or	4 SnO and Sb and current adj spread\$3  703 SnO and Sb  SnO and Sb  US-PGPUB; USPAT  2507 current adj spread\$3 US-PGPUB; USPAT  1 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) with antimony  57 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) uS-PGPUB; USPAT  8 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) uS-PGPUB; USPAT  9 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  4 ("5789768"   "5977565"   US-PGPUB; USPAT uSOCR  87 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony) and (contact with reflect\$3)  17316 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) uspart  17316 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) uspart  17316 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  149 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  140 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  148 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  149 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  140 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  149 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  150 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  151 (tin adj4 oxide or stannous adj ox	4 SnO and Sb and current adj spread\$3  703 SnO and Sb  2507 current adj spread\$3  1 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) with antimony  57 current adj spread\$3 with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  4 ("5789768"   "5977565"   US-PGPUB; OR ON USPAT USPAT USPAT; USPAT; USPAT USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  18 diffusion with (tin adj4 oxide or stannous adj oxide) and (Sb or antimony) and (contact with reflect\$3)  17316 (tin adj4 oxide or stannous adj oxide) and (Sb or antimony)  10 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony)  11 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  11 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  11 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  12 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  13 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  14 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  14 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  15 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  16 (tin adj4 oxide or stannous adj oxide) with (Sb or antimony) with thermal adj conductivity  17 (Sb or antimony) with heat near3  18 (Sb or antimony) with heat near3  19 (Sb or antimony) with heat near3  10 (Sb or antimony) with heat near3  10 (Sb or antimony) with heat near3  10 (Sb or antimony) near5 heat near3  10 (Sb or antimony) near5 heat near3

## **EAST Search History**

			1	I		
S36	1884	(Sb or antimony) near5 (good or improv\$3)	US-PGPUB; USPAT	OR	ON	2007/12/10 22:05
S37	48	(Sb or antimony) near5 (good or improv\$3) and contact near5 (reflect\$3)	US-PGPUB; USPAT	OR .	ON	2007/12/11 13:55
S38	22801	electrode near5 reflect\$3	US-PGPUB; USPAT	OR	ON	2007/12/11 13:55
S39	1234	electrode near5 reflect\$3 with improv\$3	US-PGPUB; USPAT	OR	ON	2007/12/11 13:55
S40	461	electrode near5 reflect\$3 near3 improv\$3	US-PGPUB; USPAT	OR	ON	2007/12/11 13:55
S41	2	electrode near5 reflect\$3 near3 improv\$3 with (current adj spread\$3)	US-PGPUB; USPAT	OR	ON	2007/12/11 14:03
S42	18	electrode near5 reflect\$3 near3 improv\$3 and (current adj spread\$3)	US-PGPUB; USPAT	OR	ON ·	2007/12/11 14:13
S43	32	tunnel adj junction near5 AlGaAs	US-PGPUB; USPAT	OR	ON	2007/12/11 14:14
S44	0	tunnel adj junction near5 AlGaAs with (improv\$3 or good or excellent)	US-PGPUB; USPAT	OR	ON	2007/12/11 14:15
S45	106	solder adj metallization	US-PGPUB; USPAT	OR	ON	2007/12/11 14:21
S46	17	solder adj metallization with substrate	US-PGPUB; USPAT	OR	ON	2007/12/11 14:21
S47		solder adj metallization with substrate with improv\$3	US-PGPUB; USPAT	OR	ON	2007/12/11 14:21
548	17	solder adj metallization with substrate	US-PGPUB; USPAT	OR	ON	2007/12/11 14:21
S49	1	"20020131462"	US-PGPUB; USPAT	OR '	ON	2007/12/11 15:14
S50	1	"6573537".pn.	US-PGPUB; USPAT	OR	ON	2007/12/11 15:50
S51	170527	aluminum near5 current spreading	US-PGPUB; USPAT	OR	ON	2007/12/11 15:50
S52	10	aluminum near5 current adj spreading	US-PGPUB; USPAT	OR	ON	2007/12/11 15:50